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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/725,743	12/02/2003	Elliot N. Linzer	03-1973 1496.00352	3068
22501 7590 01/22/2009 CHRISTOPHER P MAIORANA, PC LSI Corporation 24840 HARPER SUITE 100 ST CLAIR SHORES, MI 48080				
EXAMINER CHEN, CAI Y				
ART UNIT		PAPER NUMBER		
2425				
MAIL DATE		DELIVERY MODE		
01/22/2009		PAPER		

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary

Application No.

10/725,743

Applicant(s)

LINZER, ELLIOT N.

Examiner

CAI CHEN

Art Unit

2425

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☐ Responsive to communication(s) filed on ____.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-14 is/are pending in the application.
- 4a) Of the above claim(s) ____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) ____ is/are allowed.
- 6) ☒ Claim(s) 1-14 is/are rejected.
- 7) ☒ Claim(s) 14 is/are objected to.
- 8) ☐ Claim(s) ____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 02 December 2003 is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. ____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☒ Information Disclosure Statement(s) (PTO/IS/CI)
Paper No(s)/Mail Date 11/28/2007 and 12/02/2003
- 4) ☐ Interview Summary (PTO-413)
Paper No(s)/Mail Date: ____
- 5) ☐ Notice of Informal Patent Application
- 6) ☐ Other: ____

DETAILED ACTION

Claim Objections

Claim 14 objected to because of the following informalities: The recites "The apparatus according to claim 12 ", it appears this may be a mistake because the instant claim should be depended claim 13 instead. Appropriate correction is required.

Claim Rejections - 35 USC § 103

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 103 that form the basis for the rejections under this section made in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

2. Claims 1, 3-4, and 7-14 are rejected under 35 U.S.C. 103(a) as being unpatentable by Wang (US 2003/0001977 A1) in view of Linzer (6,463,102 B1)

Regarding claim 1, Wang discloses a method for processing a video signal (para. 22), comprising the steps of:

(A) receiving said video signal comprising (i) a first segment having a series of frames have a region defining a first signature and a second segment having a series of frames have a region defining a second signature (para. 22-24, para. 30-35, there are regular TV programming and commercial programming are being receive, the content classification device able to identify the commercial programming associates with

commercial classification/description/signature, and identify the regular programming associates with regular classification/description/signature, wherein the first segment refers to regular programming and the second segment refers as commercial programming).

(B) modifying each of said frames of said first segment from said first signature to a third signature (Fig. 5-7, para. 62-86, the content editing and composition device can changed and modified the transition parameter for the regular TV program from one set of parameter to another set of parameter); and

(C) modifying each of said frames of said second segment from said second signature to a fourth signature (Fig. 5-7, para. 62-86, the content editing and composition device can changed and modified the transition parameter for the commercial program from one set of parameter to another set of parameter).

Wang does not explicitly disclose [a first segment having a frame having] a first region and a second region and [a second segment having a frame having] a first region and a second region.

Linzer teaches [a first segment having a frame having] a first region and a second region and [a second segment having a frame having] a first region and a second region (Fig. 2-7, col. 1, lines 35-67, col. 2, lines 1-15, col. 3, lines 1-67, each frame has a active region and non-active region).

It would be obvious to one of ordinary in the art at the time of invention to modify Wang frame to include a first segment having a frame having] a first region and a second region and [a second segment having a frame having] a first region and a

second region, as taught by Linzer, in order to have an option to edit the frame of the program (abstract).

Regarding claim 3, Wang in view of Linzer discloses wherein (i) said first segment comprises a non-commercial program, (ii) said second segment comprises a commercial program and (iii) said signature modification is performed to suppress the detection of commercials in said video signal (Wang, abstract, para. 82-86, para. 4-7).

Regarding claim 4, Wang in view of Linzer discloses wherein transitions between said first and second segments are not detectable (Wang, Fig. 5-7, abstract, para. 4-7, para. 64-86).

Regarding claim 7, Wang in view of Linzer discloses wherein said video signal comprises a digital video signal (Wang, para. 3, Linzer, col. 2, lines 16-37, col. 4, claim 1).

Regarding claim 8, Wang in view of Linzer further discloses wherein said first region comprises an active region (Linzer, Fig. 2 and 3, col. 1, lines 35-67, col. 2, lines 1-15, col. 3, lines 1-67, the encoded region is an active region).

Regarding claim 9, Wang in view of Linzer further discloses obscuring a start of an active video in at least one of said frames (Linzer, Fig. 6, col. 3, lines 30-56, blurring the edge of an image frame).

Regarding claim 10, Wang in view of Linzer further discloses wherein:
step (C) comprises modifying said frames of said second segment from said second signature to said first signature (Wang, Fig. 5-7, para. 62-86, the content editing and composition device can changed and modified the transition parameter for the commercial program from one set of parameter to another set of parameter to prevent the detection of the commercial program).

Regarding claim 11, the apparatus claim is analyzed with respect to claim 1.

Regarding claim 12, the apparatus claim is analyzed with respect to claim 7.

Regarding claim 13, the apparatus claim is analyzed with respect to claim 1.

Regarding claim 14, the apparatus claim is analyzed with respect to claim 7.

3. Claim 3 is rejected under 35 U.S.C. 103(a) as being unpatentable by Wang (US 2003/0001977 A1) in view of Linzer (6,463,102 B1) and further in view of Dimitrova (US 6,469,749 B1).

Regarding claim 3, Wang in view of Linzer discloses all limitation of claim 1.
Wang in view of Linzer discloses the commercial programs associates with signature

(para. 82-86, the transition parameter associates with the commercial program can be modified).

Wang in view of Linzer does not explicitly disclose wherein said second signature is equal to said fourth signature.

Dimitrova teaches wherein said second signature is equal to said fourth signature (Fig. 2, abstract, col. 5, lines 25-col. 8, lines 20, the signatures are extracted from the commercial program to compare with the signatures stored in the database to check to see if they match, if it is then the verification is a commercial program).

It would be obvious to one of ordinary in the art at the time of invention to modify Wang in view of Linzer frame to include wherein said second signature is equal to said fourth signature, as taught by Dimitrova, in order to correct identify the program content and making sure the physical program content has not been change (abstract).

4. Claims 5 and 6 are rejected under 35 U.S.C. 103(a) as being unpatentable by Wang in view of Linzer and further in view of Teicher (5,847,703)

Regarding claim 5, Wang in view of Linzer discloses all limitation of claim 1.

Wang in view of Linzer does not explicitly discloses cropping each of said frames to a first size, wherein said cropped frames comprise only said first region equaling a size of said frames prior to said modifying steps.

Teicher teaches cropping each of said frames to a first size, wherein said cropped frames comprise only said first region equaling a size of said frames prior to

said modifying steps (User uses Crop criteria and frame size criteria to select the desire frame, see Fig. 3-4, col. 4, lines 46-col. 5, line 50).

It would be obvious to one of ordinary in the art at the time of invention to modify Wang in view of Linzer frame to include cropping each of said frames to a first size, wherein said cropped frames comprise only said first region equaling a size of said frames prior to said modifying steps, as taught by Teicher, in order to identify and view the desire frames of the desire segment of the program (abstract).

Regarding claim 6, Wang in view of Linzer and further in view of Teicher discloses wherein said first size fills said active region (Linzer, Fig. 2-7, col. 1, lines 35-67, col. 2, lines 1-15, col. 3, lines 1-67, Teicher, Fig. 3-4, col. 4, lines 46-col. 5, line 50, the users uses the crop criteria and the frame size criteria to fill the crop size the active region of the frame)

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to CAI CHEN whose telephone number is (571)270-5679. The examiner can normally be reached on 7:30 am to 4:30 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Brian Pendleton can be reached on 571-272-7527. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

C. C.
Examiner, Art Unit 2425

/Brian T. Pendleton/

Supervisory Patent Examiner, Art Unit 2425